

United States Patent

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,438	02/09/2004	Takahiro Kurokawa	HIRA.0138	6598	
Stanley P. Fisher Reed Smith LLP Suite 1400 3110 Fairview Park Drive Falls Church, VA 22042-4503			EXAM	EXAMINER	
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			ART UNIT	PAPER NUMBER	
			2627	•	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/773,438	KUROKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	MUHAMMAD N. EDUN	2627			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. ❖					
Disposition of Claims					
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 12 is/are allowed. 6) ☐ Claim(s) 1,5 and 6 is/are rejected. 7) ☐ Claim(s) 2-4 and 7-11 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers					
<u> </u>					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1, 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakano (US 2002/0136122) in view of the admitted prior art shown in Fig. 2.

Nakano discloses the invention substantially as claimed. However does not show specifically the second photodetector for detecting light reflected by the first information recording layer when the light from the light source is focused on the second information recording layer. Nakano shows in Figs. 1-10(C) the information recording apparatus having: the recording medium (28) having two information recording layers stacked one upon the other in which information is recorded as their states are varied upon light irradiation (see Fig. 7); a light source (1); an optical system (2) for focusing light from said light source selectively on a first information recording layer located closer to the side on which the light is incident and on a second information recording layer farther from the side on which the light is incident; a photodetector (4) for detecting light reflected by either said first or said second information recording layer on which the light from said light source is focused; and a control circuit (5) for controlling the power of the light with which said second information recording layer is irradiated, based on a detection signal from said second photodetector (see Fig. 8 and sections [0041], [0043], [0053], [0059], [0062], [0069] and [0082], for the description of obtaining the optimum power for the first and second recording layers), as set forth in claims 1, 5 and 6.

The admitted prior art shown in Fig. 2 shows a second photodetector for detecting light reflected by the first information recording layer when the light is focused on the second information recording layer (see the photodetector section of Fig. 2).

Note that even though the photodetector section of Fig. 2 is not described, it is believed to be the same as Fig. 1 (as apparent from the figures), which describes that the photodetectors includes sections (116) and (115).

It would have been obvious for one of ordinary skill in the art at the time the invention was made, to modify the recording apparatus of Nakano such that the photodetector (4) of Nakano includes a second photodetector for detecting the light reflected by the first information recording layer when the light form the light source is focused on the second information recording layer, as shown in the admitted prior art Fig, 2, in order to increase the quality of the optimum test samples and thereby generate a more precise recording power control information.

Allowable Subject Matter

Claim 12 is allowed.

Claims 2-4 and 7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

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The prior art of record alone or in combination does not teach or suggest the information recording apparatus and method of claims 1 and 6, having the further limitations as set forth in claims 2-4 and 7-11,

Further the prior art of record does not teach the information recording method having the combination of steps with their recited process, along with recording information by focusing light on the second information recording layer, using a write power P such that P0<P<P1 or P0>P>P1 is satisfied, as set forth in claim 12.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spruit (US 2002/0085462) discloses an optical disk apparatus having the ability of determining the optimum write power of the optical disk having plural recording layers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> MUHAMMAD N EDUN Primary Examiner Art Unit 2627